

# Agricultural Chemical Usage, 2005

## Fruits – Apples and Peaches

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### Pesticides



#### Apples

Herbicides were applied to 41 percent of the 21,800 bearing acres of apples in the state. A total of 31,100 pounds was applied to that acreage. The active ingredient most commonly used was Simazine with a total application of 7,200 pounds. It was applied to 18 percent of the bearing acreage at a rate of 1.806 pounds per acre. The second-most used herbicide was Diuron. A total of 5,000 pounds was used on 12 percent of all bearing acres. There was an average of 1.3 applications made at a rate of 1.418 pounds per acre.

Insecticides were applied to 90 percent of Pennsylvania's bearing apple acreage. A total of 418,900 pounds was applied. Petroleum distillate was by far the most commonly used active ingredient. A total of 276,500 pounds was applied to 50 percent of all bearing acres. There was an average of 1.7 applications made at a rate of 14.455 pounds per acre.

Fungicides were applied to 85 percent of the state's bearing apple acreage. A total application of 329,700 pounds was made. Captan was the most commonly used active ingredient with 95,500 pounds of the chemical applied to 68 percent of all bearing acres. An average of 6.9 applications was made at a rate of 0.945 pounds per acre. The second-most common fungicide in use was Mancozeb. A total of 88,000 pounds was applied to 51 percent of bearing acres. It was applied at a rate of 1.375 pounds per acre an average of 5.8 times.

Other chemicals were applied to 43 percent of bearing apple acreage in the state. A total of 2,300 pounds was applied. Ethephon was the most commonly used active ingredient of these chemicals as a total of 1,900 pounds was applied to 23 percent of the state's bearing acreage. It was applied at a rate of 0.191 pounds per acre with an average of 2 applications.

#### Peaches



Herbicides were applied to 30 percent of the 4,500 bearing acres of peaches in the state. A total of 3,500 pounds was applied to that acreage. The active ingredient most commonly used was Diuron with a total application of 900 pounds. It was applied to 12 percent of the bearing acreage at a rate of 1.724 pounds per acre. The second-most used herbicide was Paraquat. A total of 700 pounds was used on 21 percent of all bearing acres. There was an average of 1.4 applications made at a rate of 0.545 pounds per acre.

Insecticides were applied to 75 percent of Pennsylvania's bearing peach acreage. A total of 24,600 pounds was applied. Phosmet was the most commonly used active ingredient. A total of 8,600 pounds was applied to 53 percent of all bearing acres. There was an average of 3.6 applications made at a rate of 0.987 pounds per acre.

Fungicides were applied to 81 percent of the state's bearing peach acreage. A total application of 71,300 pounds was made. Sulfur was the most commonly used active ingredient with 38,900 pounds of the chemical applied to 53 percent of all bearing acres. An average of 4.1 applications was made at a rate of 3.984 pounds per acre. The second-most common fungicide used was Captan. A total of 18,100 pounds was applied to 58 percent of bearing acres. It was applied at a rate of 1.316 pounds per acre an average of 5.3 times.

Other chemicals were applied to 1 percent of bearing peach acreage in the state. The total applied was less than 50 pounds.

Pennsylvania: Fruit Crops – Pesticide, Bearing Acreage,  
Percent of Area Receiving Applications and Total Applied, 2005

Crop	Bearing Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide <sup>1</sup>		Fungicide <sup>1</sup>		Other	
	Acres	Percent	1,000 lbs.	Percent	1,000 lbs.	Percent	1,000 lbs.	Percent	1,000 lbs.
Apples	21,800	41	31.1	90	418.9	85	329.7	43	2.3
Peaches	4,500	30	3.5	75	24.6	81	71.3	1	<sup>2</sup>

<sup>1</sup> Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals. Quantities are not available because amounts of active ingredient are not comparable between products. <sup>2</sup> Total Applied is less than 50 pounds.